

# SIEMENS



## CCMC1315-LP / CCMS1315-LP 1/3" 1.3 MP Colour IP Camera

Configuration

Technical specifications and availability subject to change without notice.

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# 1 Safety

## 1.1 General safety precautions

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- Read the general safety precautions before installing, configuring and operating the device.
- Keep this document for reference.
- Please also take into account any additional country-specific, local safety standards or regulations concerning project planning, operation and disposal of the product.
- Follow all warnings and instructions marked on the device.

### Liability claim

- Do not make any changes or modifications to the device unless they have been approved by the manufacturer.
- Use only spare parts and accessories that have been approved by the manufacturer.

### 1.1.1 Transport

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#### Damage during transport

- Keep the packaging material for future transportation.
- Do not expose the device to mechanical vibrations or shocks.

### 1.1.2 Installation

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- It is recommended that all preparatory work (e.g. fitting of accessories) be carried out in a workshop prior to final installation.

#### Radio interference with other devices in the environment

- When handling modules that are susceptible to electrostatic discharge, please observe the ESD guidelines.

#### Damage due to unsuitable mounting location



- The environmental conditions recommended by the manufacturer must be observed. See section "Technical data".
- Do not operate the device in dusty places.
- Do not expose the device to mechanical vibrations or shocks.

- Protect the device against moisture.
- Place the unit on a stable surface that will hold its weight.
- The mounting surface must be solid and non-combustible.
- Do not operate the device close to sources of powerful electromagnetic radiation.

### Danger of electrical shock due to incorrect connection

- Connect the device only to power sources with the specified voltage. Voltage supply requirements can be found on the mains adapter.
- Make sure the device is permanently connected to the electricity supply; a readily accessible disconnect device must be provided.
- This device is designed to work with DC 12 V / AC 24 V-systems or PoE. Do not connect the device to any other power systems.

## 1.2 Meaning of symbols

	<p><b>NOTICE</b></p> <p>Malfunctioning may result.</p>
	<p>Tips and information.</p>

## 2 EU-directives

This product complies with the requirements of the following European directives.  
The EU declaration of conformity is available to the responsible agencies at:

Siemens Building Technologies  
Fire & Security Products GmbH & Co. oHG  
76181 Karlsruhe  
Germany

### European Directive 2004/108/EC „Electromagnetic Compatibility”

Compliance with the European Directive 2004/108/EC has been proven by testing according to the following standards:

Emitted interference:	<p>EN 61000-6-3</p> <p>EN 55022 Class B</p>
Interference resistance:	<p>EN 50130-4</p>

### 3 Technical data

<b>Image system</b>	
Image sensor	1/3" progressive CCD (EXview HAD), 1.3 megapixels
Pixels	Full scanning mode: 1280 (H) X 960 (V)
Compression	MJPEG / MPEG4
Image frame rate	SXGA (1280 x 960) at 12 ips max. (MJPEG only) VGA (640 x 480), QVGA (320 x 240) at 25 ips max.
Cropping window	Simultaneous video transmission of up to 5 independent cropping windows, freely configurable in size and position at 5 ips max. (MJPEG mode only)
Video outputs	1 V <sub>pp</sub> (75 Ω BNC composite video) CVBS or IP video alternatively selectable by switch
<b>Electronics</b>	
Synchronisation	Internal
Signal/noise ratio	> 50 dB
Lens	CS mount
Gamma correction	0.45 / 1
Minimum illumination	CCMC1315-LP: 0.4 lx (F1.2, AGC On) CCMS1315-LP: Colour 0.4 lx (F1.2, AGC On); BW 0.2 lx (AGC On)
White balance control	Auto (2500 – 10000 K) / Manual (1500 – 15000 K) / Preset
Shutter speed	1/25 – 1/10,000 s; support of long shutter up to 4 s max.
Back light compensation (BLC)	On/Off, BLC1 - BLC6
Audio	Two-way audio; full-duplex, G.726 (integrated microphone)
Alarm inputs	1, 1 x B/W switch in
Alarm outputs	1
Telemetry protocol	RS485
SD card slot	2 GB SD-RAM included in scope of delivery
Microphone	Internal
Motion detection	1 MD window (selectable size & position) with 3 sensitivity levels

<b>Network</b>	
Network connections	Ethernet 10/100 Base-T
Compression	JPEG / MPEG4 (dual-streaming)
Resolution	MJPEG: VGA (640 x 480 pixels) / QVGA (320 x 240 pixels) at 25 ips max. MJPEG: SXGA (1280 x 960 pixels) at 12 ips max. MPEG4: VGA (640 x 480 pixels) / QVGA (320 x 240 pixels) at 25 ips max.
Image quality setting (compression level)	5 levels
Audio function	Two-way mono audio; full-duplex
Protocols	TCP/IP, UDP, HTTP, SMTP, DNS, DHCP, NTP, ARP, ICMP, FTPc, FTPs, DDNS, RTP (RTCP, RTSP), IGMP v3, UPnP, NFS, CIFS
Web browser	IE browser 6.0 or above
<b>I/O connector</b>	
Network port	RJ45 with control LEDs
Video outputs	BNC (CVBS out alternatively selectable by switch)
AI Lens connector	1 x 4-pin jack (located on side)
Audio in & out connector	3.5 mm phone jack
Alarm connector	2 x alarm in / 1x alarm out
Power connector	3-pin spring terminal
LED	Status, network link
RS485	2-pin spring terminal
<b>Power supply</b>	
Power requirements	12 V DC / 24 V AC, 50 Hz or PoE
Power consumption	CCMC1315-LP: < 7 W CCMS1315-LP: < 8.5 W
Power connector	Spring terminal
<b>Environment</b>	
Ambient temperature, operating	-10 to 50°C
Operating humidity	80 % RH or less
Ambient temperature, storage	-20 to 60°C



<b>Mechanism</b>	
Dimensions (L x W x H)	150 x 66 x 64 mm
Weight	550 g

## 4 Ordering data

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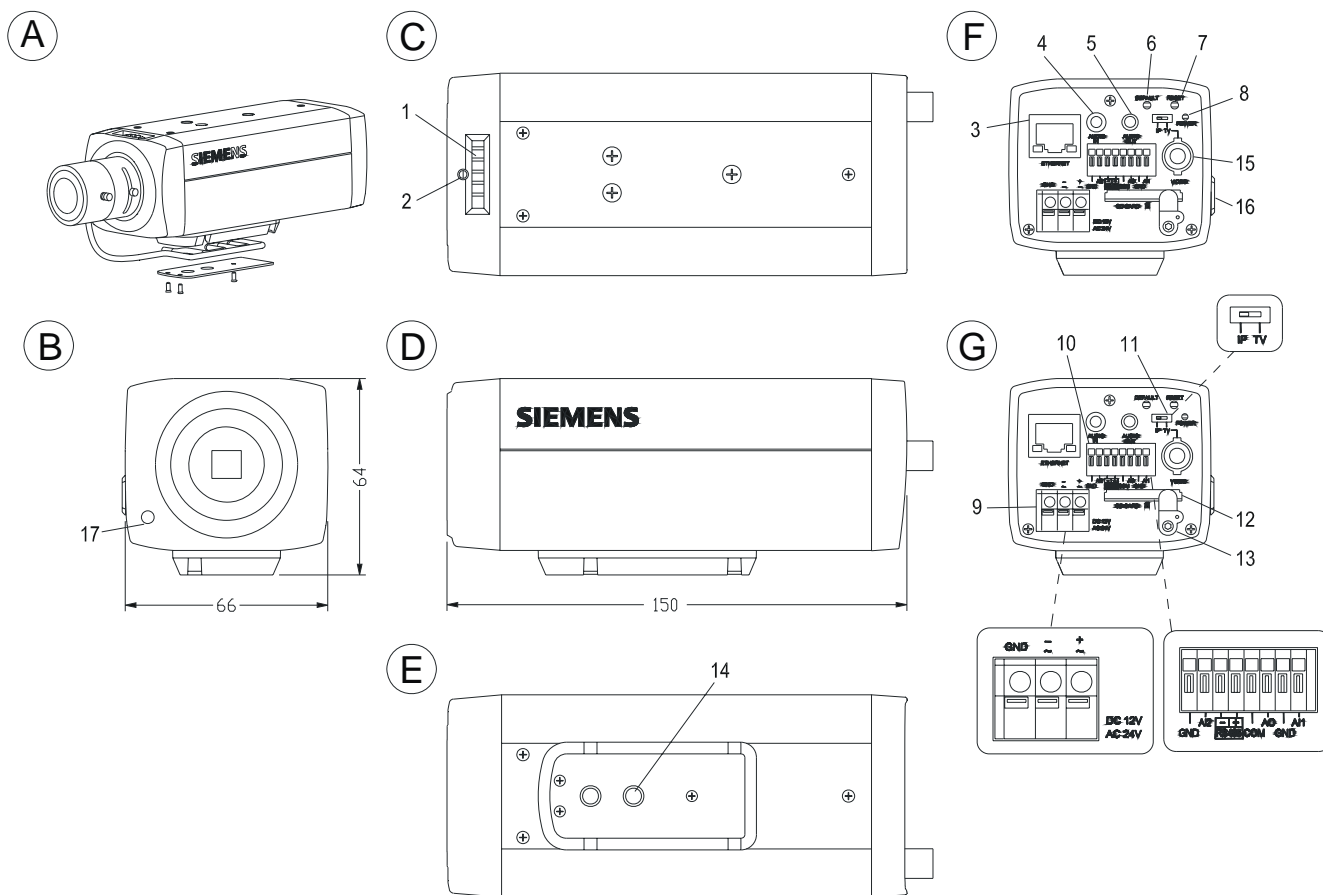
Type	Art No.	Description	Weight
CCMC1315-LP	S54561-C80-A1	1/3" 1.3 MP Colour IP Camera 12 V DC / 24 V AC, 50 Hz or PoE	0.55 kg
CCMS1315-LP	S54561-C80-A2	1/3" 1.3 MP Day/Night IP Camera 12 V DC / 24 V AC, 50 Hz or PoE	0.55 kg
Accessories, not included in delivery			
CLVD1316/3-8	S54561-B300-A1	1/3" Megapixel varifocal lens, direct-drive iris, F1.0, 3 – 8 mm	0.08 kg
CLVM1316/3-8	S54561-B301-A1	1/3" Megapixel varifocal lens, manual iris, F1.0, 3 – 8 mm	0.07 kg
CLVD1316/5-50	S54561-B302-A1	1/3" Megapixel varifocal lens, direct-drive iris, F1.4, 5 – 50 mm	0.08 kg
CLVM1316/5-50	S54561-B303-A1	1/3" Megapixel varifocal lens, manual iris, F1.4, 5 – 50 mm	0.06 kg

## 5 Package contents

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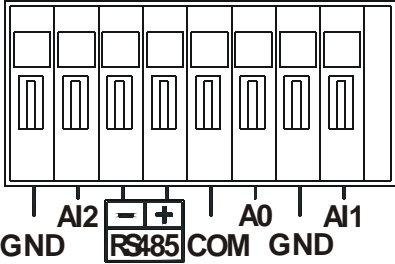
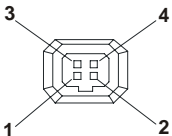

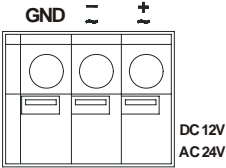


- CCD IP camera
- Documentation CD
- Utilities CD
- Installation instruction (English, German, French, Spanish, Italian)
- SD card (2 GB)
- Hexagonal wrench
- Torx wrench T6
- Lens connector

## 6 Camera parts



Camera parts

1	Back-focus adjust ring	10	Digital I/O terminal
2	Back-focus lock screw	11	IP/TV selection
3	RJ45 Ethernet connector	12	SD card slot
4	Audio input (φ3.5mm)	13	SD card protection
5	Audio out (φ3.5mm)	14	1/4" inch tripod mount hole
6	SW for default	15	BNC connector
7	SW for reset	16	IRIS connector
8	Power indicator	17	Microphone
9	DC12V/AC24V power terminal		

Digital I/O terminal  		GND	1. External alarm input-2
		AI2	2. Becoming BW/CL enforced input when the <b>Digital Input Mode</b> is set to 'BW Mode' in the Configuration/Alarm menu. See page [→ 36]
		RS485- / +	RS485 signal output port for telemetry control
		COM	Alarm output port
		AO	
		GND	External alarm input-1
		AI1	
	DC Auto Iris port	PIN 1	Damp -
		PIN 2	Damp +
		PIN 3	Drive +
		PIN 4	Drive
	Power IN connector	WHITE: Power -	POWER DC12V / AC24V
		BLACK: Power +	
	Video output connector	Video Signal Output	Composite video output
	IP/TV switch	IP	Video out through Ethernet
		TV	BNC composite video out for installation purpose
		<b>NOTE:</b> After switching between IP and TV the camera has to be restarted	
	Default/Reset	DEFAULT	Return to factory default by pressing button for 5 seconds
		RESET	System re-start

## 7 Installing the camera

### 7.1 SD Memory Card

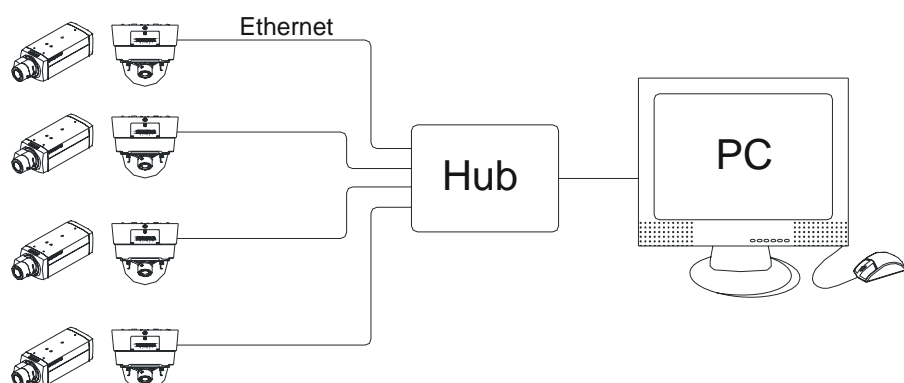
Please install the SD memory card before switching on the camera as the system can not detect the insertion of an SD card during operation.

- There is a limit to the number of rewrites that are possible with the SD memory card. Replacing the SD memory card when performing periodic maintenance of the camera is recommended.
- The camera supports the following SD memory cards. Do not use memory cards with other specifications. SD memory card: 64, 128, 256, and 512 MB, 1 or 2 GB SD memory cards (3.3 V) supported.
- Images may not be recorded or read correctly if an unsupported SD memory card is used with the camera.
- Carefully read the manual, precautions on use, and any other information supplied with a purchased memory card.
- Do not use a memory card containing the data recorded by another device with the camera as this may result in the camera not functioning correctly.
- Do not modify, overwrite the data, or change the folder name of an SD memory card as this may result in the camera not functioning correctly.
- Data recorded with the camera do not comply with the image file format Exif and the DCF standard. If the SD memory card is to be removed to play images, use a personal computer to play the images. Other devices may not be capable of doing so.

### 7.2 Concept of the Network Camera

The camera can be used in various indoor environments.

It can deliver video images and audio in real time using the Internet or an intranet. The camera is equipped with Ethernet (RJ-45) 10BASE-T/100BASE-TX network interfaces.



## 7.3 Setting Network Camera Environment

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Equipment required for a network camera monitoring system:

- Administrator's personal computer  
The personal computer that is given all authorities for setting, operating, monitoring and other functions with the network camera is called the "administrator's personal computer" in this manual.
- Recommended personal computer operating conditions
  - Operating system: Windows Vista or XP
  - Internet Explorer Version 6.0 or later
  - CPU: Intel Pentium 4.2 GHz or higher
  - Memory: 512 MB or more
- Network camera  
Please purchase the required and appropriate number of cameras corresponding to the desired camera installation locations.
- Connection equipment such as a hub and router suiting the network system environment and LAN cable, a Cat 5e LAN cable is recommended.
- Camera search application Web-Cam IP Manager (See also page [→ 16].)  
Install this application from the Utilities CD supplied as an accessory.
  - Install the Web-Cam IP Manager **Version 2.0** (Web IP Manager.exe) if all the units are located in the same network segment.
  - Install the Web-Cam IP Manager **Version 3.0** (IPFinder.exe) if the units are not located in the same network segment.

## 7.4 Connecting the Camera and PC by Network

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### IP address

To connect to the network, the administrator needs to set the network camera IP address. There are two options for setting the IP address:

- Entering the IP address manually (factory default)  
Your camera is set to this mode at the factory with the IP address: 192.168.0.10, so you need to enter this IP number manually to access the camera for the first time.
- Obtaining an IP address automatically from the DHCP server  
If your network uses a DHCP server, you do not need to change the IP address of the camera. But be sure to set DHCP ON/OFF to ON in "Network settings/Basic".



The IP address of the network camera may change when using the DHCP server. In that case it will not be possible to connect the network camera if it is accessed using the previously set IP address.

In order to enable permanent access to the network camera, a fixed IP address must be manually assigned to the camera.

Please read the instruction manuals for the network system equipment as well as those for the router, hub and modem.

When entering the IP address manually, set DHCP ON/OFF to OFF in "Network/Basic Settings" and enter the IP address, subnet mask, default gateway, primary DNS and secondary DNS.

## Connection Configuration

Two configurations are available for connection of network cameras.

- Crossover connection
- Connection via a hub, switch, or router



You do not need to assign an IP address to a hub.

The IP address of your camera is set to 192.168.0.10 by default. Set the IP address of your personal computer in the same subnet. (The network segment must be the same segment when directly connecting using a cross cable or connecting through the hub).

When connecting more than one camera, connect each camera using the default IP address and change the IP addresses of the second and subsequent cameras to other IP addresses, such as 192.168.0.11.

You can also use the LAN port of your broadband router. However, when using the broadband router, if the DHCP server function is set to "ON", turn on the power after connecting the camera with the router. The camera gets the IP address from the router's DHCP server and it may not be 192.168.0.10.

For more information, read your computer's user's guide and the user's guide for the broadband router.

It is also recommended to set the computer's IP address from the router's DHCP server.

## Connecting Camera and Personal Computer

1. Connect the LAN cable (straight cable) connected to the camera to the hub.  
- OR -  
Connect the camera to a personal computer with the power turned on using the LAN cable (cross cable). Connect DC 12 V / AC 24 V to the power terminal.
2. Set the IP address of your personal computer
  - Set the IP address of your PC to other than 192.168.0.10 (Camera's default IP address).  
E.g. set the IP address to 192.168.0.20 (and subnet mask to 255.255.255.0).

- For details about the procedure, refer to the user's guide of the personal computer.
- 3. Test the camera connection using ping.
  - Start a command prompt. Type "ping 192.168.0.10".
  - If the "Reply from..." message appears, the connection is correctly established.
- 4. Enter the camera's IP address in the address bar of the IE browser.
  - OR -
  - Search the camera with the "Web-Cam IP Manager" application. See page [→ 16] .
- 5. Log-in with the administrator ID. See page [→ 19] .

## 7.5 Using the Web-Cam IP manager

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The Web-Cam IP Manager is an application for searching for network cameras that can currently be viewed from the administrator's personal computer or a user's personal computer, and connecting to those cameras.

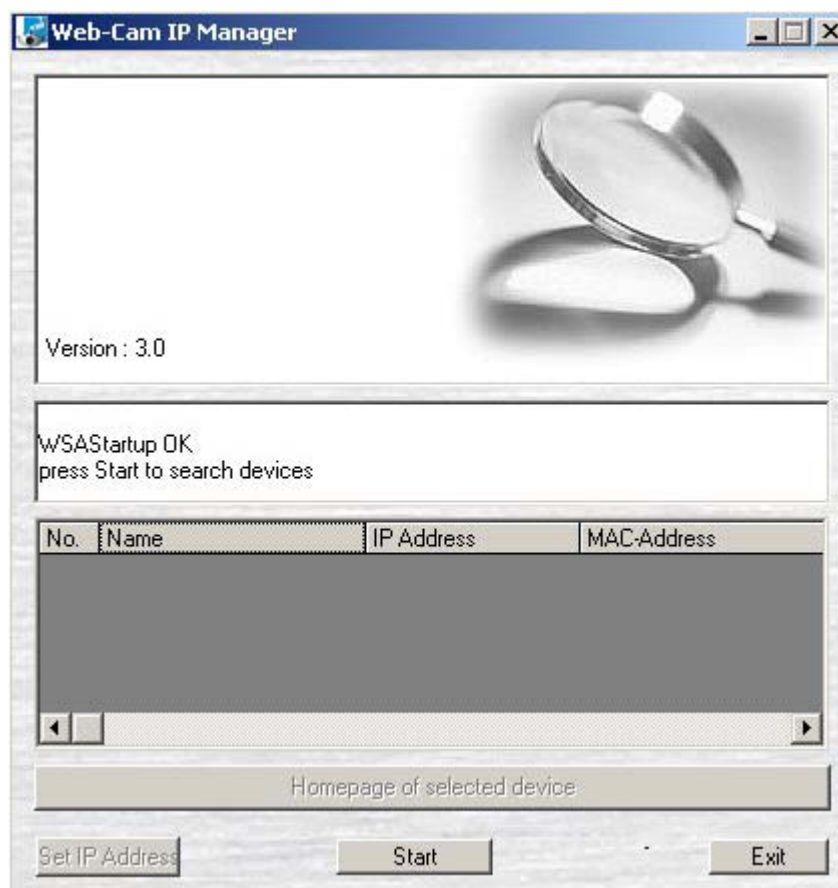
Use the **Web-Cam IP Manager Version 2.0** (Web IP Manager.exe) if all the units are located in the same network segment.

Use the **Web-Cam IP Manager Version 3.0** (IPFinder.exe) if the units are NOT located in the same network segment. In that case, you must ensure that associated gateway (router) passes the SSDP (Simple Service Discovery Protocol) multicast messages sent by the Web-Cam IP Manager to the network segment where the device is located.

To search a camera in the network:

1. Start the Web-Cam IP Manager (The file is included on the utilities CD).
  - ⇒ The Web-Cam IP Manager program window will open:





2. Click the **Start** button.
  - ⇒ The Web-Cam IP Manager program window will now display a list of all the devices available for communication along with their IP and MAC addresses. Each device's IP address or MAC address is unique.
3. Select the device whose homepage you want to access.
4. Click the **Homepage of selected device** button.
  - ⇒ The homepage of the selected camera will appear.



Set the personal computer to "Administrator authorization" when using the Web IP Manager.

To connect with a camera without using the Web IP Manager, launch the Internet browser, enter the camera's IP address in the browser bar and press **Enter**.

If a port number other than "80" is set, designate the port number by suffixing it after ":" (e.g. <http://192.168.0.10:88>).

## 7.6 Browser settings

1. Launch the Internet Explorer.
2. Select **Internet option** on the **tools** menu and click the **Security** tab.
3. Click the **Local intranet** icon if the camera is inside the Intranet.
  - OR -
  - Click the **Internet** icon if the camera is on the Internet.

4. Click **Level Customize** and enable the following options in the displayed list:
  - "ActiveX control and plug in execute"
  - "Execution of script of ActiveX control marked safe even when script is executed"
  - "Download of signed ActiveX control"
5. Enable cookies

### Browser settings when proxy server is used

In case a proxy server is used, setting of the browser to bypass the proxy server during communication with the network camera is recommended.

1. Launch the Internet Explorer.
2. Select **Internet option** on the **tools** menu.
3. Click **Connections** tab and then click the button **LAN Settings**.
  - ⇒ If the checkbox is not marked: The browser is not set to use a proxy server. Click **Cancel** and quit setting.
  - ⇒ If the checkbox is marked, follow the steps:
4. Click **Advanced**.
5. Enter the IP addresses of the network cameras in the field marked "Do not use proxy server for addresses beginning with...".
6. Click **OK**.

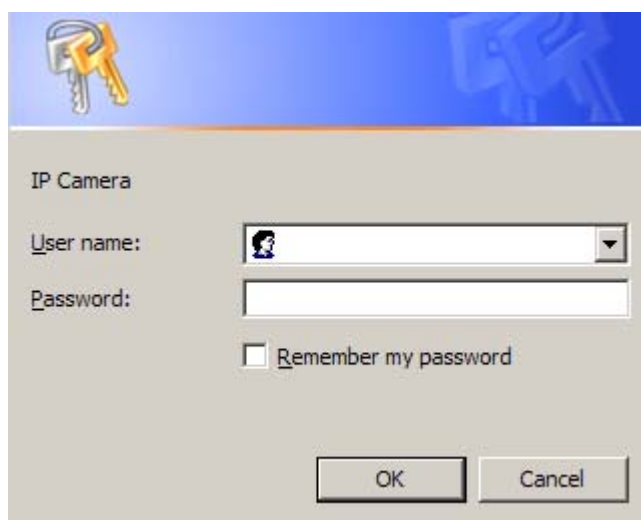


- 
- A proxy server protected by a firewall sometimes cannot be connected to the network camera. Consult the network administrator so as to avoid impacts on network camera operations.
  - Communication with the network cameras via a proxy server may cause some problem. Install the network cameras after consulting the network administrator.
  - When using the network cameras via a proxy server it may take a long time for the images to be displayed after log-in, or the frame rate of the images may be reduced.
-

## 8 Getting started

### 8.1 Login

1. Open the Internet Explorer and enter the camera's default IP address in the browser address bar: **192.168.0.10**.
2. If the IP address is unknown use the Web IP Manager to search for the camera. See page [→ 16] .
3. The login dialog will appear.



4. Enter the administrator User name and Password.  
The default settings for the administrator login are "admin" and "admin".

<b>!</b>	<b>NOTICE</b>
	<p>Important</p> <p>The administrator login allows rewriting of all settings. Change the default administrator user name and password to ensure camera security. See page [→ 52] .</p>

5. Click **OK**.
6. The homepage of the camera will appear.

### 8.2 Using the Live Player - Web




If the Camera Image screen is not displayed, check your browser settings. See page [→ 17] .

1. Click the desired image stream (Stream 1 or 2).
2. Control the live stream as described in the table below.

**Live Player – Web**

Play	Shows live image
Pause	Pauses live image
Speaker	Stops audio input
Microphone	Stops audio output
E	E-zoom control See table below.
R	Remote control (see table below).  You can control PTZ functions, move the camera to preset positions and also make lens adjustments such as focus adjustment and zoom in/out. Before using this function, please set the baud rate and address of the telemetry device for control via the RS485 port.

## Remote control

	X	Exit the remote control
	- / +	Previous / next preset position
	0-9	Select a preset position (1-64)
	./..	Toggle between 1 and 2 digits
	C	Clear
	SET	Save current position. (Click SET and then click the number for the preset position to be saved. Up to 64 positions can be stored for the network camera.)
	Arrow keys	Use the arrow keys to move the pan/tilt position. (NOTE: Pan/tilt position control is only available if zoom is larger than 1)
	+ / -	Zoom in / out
	o / oo *	Focus near / far

*\*NOTE: Not available for this camera type.*

## 8.3 Using a RTSP player

To view the MPEG4 streaming media using an RTSP player, you can use one of the following players that support RTSP streaming (Real-Time Streaming Protocol):

- QuickTime Player
- VLC Media Player

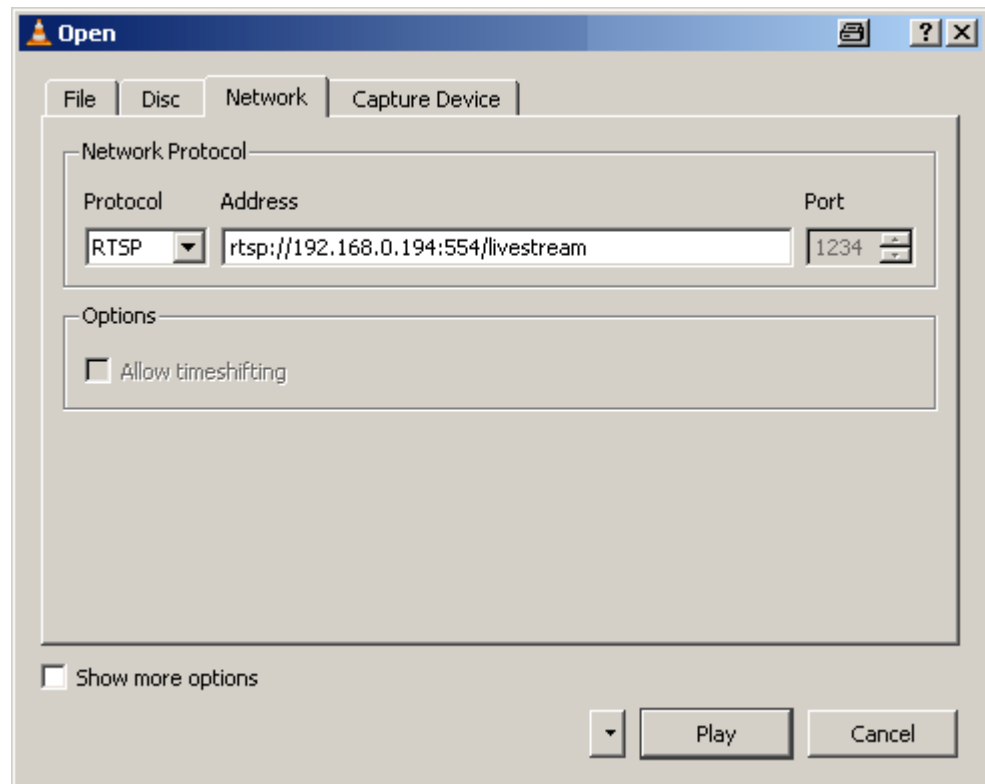
The applications can be found on the Utilities CD included with the delivery.

### VLC Media player

▷ The VLC media player needs to be installed.

1. Open the VLC media player.
2. Select **Media > Advanced Open File**, then click the **Network** tab.

⇒ The following dialog box will appear.



3. Select **RTSP** then enter the web address.

The format is: `rtsp://<IP address>:<rtsp_port>/livestream`

For example: `rtsp://192.168.0.194:554/livestream`

4. Click **Play**.

⇒ The QuickTime live stream window will opened.

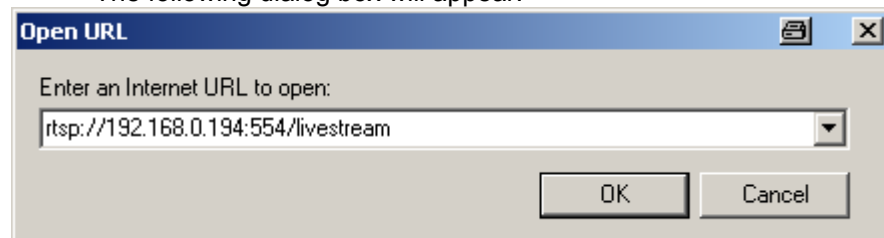
## QuickTime Player

▷ The QuickTime player needs to be installed.

1. Open the QuickTime player.

2. Select **File > Open URL**.

⇒ The following dialog box will appear.



3. Enter the web address.

The format is: `rtsp://<IP address>:<rtsp_port>/livestream`

For example: `rtsp://192.168.0.194:554/livestream`

4. Click **OK**.

⇒ The VLC live stream window will open.

See also

 Compression [→ 24]

## 8.4 Function support

	Ezoom	OSD	Cropping	Mask Zone	Frame Rate
Stream 1 JPEG SXVGA	X	X	X	X	12,5
Stream 2 JPEG SXVGA	X	X	X	X	12,5
Stream 1 JPEG VGA	O	O	O	O	25
Stream 2 JPEG VGA	O	O	O	O	25
Stream 1 JPEG QVGA	O	O	O	O	25
Stream 2 JPEG QVGA	O	O	O	O	25
Stream 1 MPEG4 VGA	O	O	X	O	12,5
Stream 2 JPEG SXVGA	X	X	X	X	12,5
Stream 1 MPEG4 QVGA	O	O	X	O	12,5
Stream 2 JPEG SXVGA	X	X	X	X	12,5
Stream 1 MPEG4 VGA	O	O	X	O	25
Stream 2 Jpeg VGA	O	O	O	O	25
Stream 1 MPEG4 QVGA	O	O	X	O	25
Stream 2 JPEG VGA	X	X	X	X	25
Stream 1 MPEG4 VGA	X	X	X	X	25
Stream 2 JPEG QVGA	O	O	O	O	25
Stream 1 MPEG4 QVGA	O	O	X	O	25
Stream 2 JPEG QVGA	O	O	O	O	25

## 9 Configuration

<b>!</b>	<b>NOTICE</b>
	<b>Important</b> The settings will not be reflected unless the <b>Save</b> button is clicked.

### 9.1 Compression

1. Select **Compression**.
2. Configure the options as described in the tables below.
3. Click **Save**.

Stream 1	
Image Mode	MPEG4 ▾
Resolution	640 x 480 ▾
Frame Rate	25 ▾ fps
Compression Ratio	Standard ▾
Bit Rate	2048 ▾ kbit/s
GOP	29 (1 - 64)

Stream 2	
Image Mode	JPEG ▾
Resolution	640 x 480 ▾
Frame Rate	25 ▾ fps
Compression Ratio	Standard ▾

There are two streams available for selection. Stream 1 can be set to JPEG and MPEG4, but only JPEG is available for Stream 2.

Image Mode	JPEG	MPEG4
Resolution	Higher resolution results in larger image sizes. 1280 x 960 (SXVGA) / 640 x 480 (VGA) / 320 x 240 (QVGA)	640 x 480 and 320 x 240 available.
Compression Ratio	Sets quality of images. The size of image files (JPEG files) varies in accordance with compression ratio.  Select "Low" for highest image quality. The file size increases.	–



	Select "High" for lowest image quality. The file size decreases.	
Frame Rate	Select the desired frame rate.	–
Bit Rate	–	Select the desired bit rate.
GOP	–	Default: 29. "29" means 1 I frame plus 28 P frames. You can adjust GOP size between 1 and 64.
Resolution	Higher resolution results in larger image sizes. 1280 x 960 (SXVGA) / 640 x 480 (VGA) / 320 x 240 (QVGA)	640 x 480 and 320 x 240 available.

Multicast Address	
Multicast Address	<input type="text" value="231.0.0.222"/> (224.0.0.23 ~ 239.255.255.254)
Stream 1	
Transfer Type	<input type="radio"/> Multicast <input checked="" type="checkbox"/> Automatic Connection <input checked="" type="radio"/> Unicast
RTSP Port	<input type="text" value="554"/> (1 - 65535)
Video Port	<input type="text" value="5000"/> (1 - 65535)

Multicast Address	Specify the multicast address (e.g. of the switch or router)
Transfer Type	Select "Unicast" or "Multicast".  In "Multicast" mode camera supports IGMP. When selecting "Automatic Connection", the camera immediately starts Multicasting.
RTSP Port Number	Specify the port number you would like to use for RTSP protocol, default is 554
VIDEO Port Number	Specify the port number you would like to use for video streaming, default is 5000

**See also**

 Using a RTSP player [→ 21]

## 9.1.1 Bandwidth requirements

Resolution	Compression	Streaming Protocol	Frame Rate	Mb/s
320x240	High	MJPEG	25 fps	0.90 Mb/s
320x240	Mid-High	MJPEG	25 fps	1.17 Mb/s
320x240	Standard	MJPEG	25 fps	1.36 Mb/s
320x240	Mid-Low	MJPEG	25 fps	1.78 Mb/s
320x240	Low	MJPEG	25 fps	2.93 Mb/s
640x480	High	MJPEG	25 fps	2.47 Mb/s
640x480	Mid-High	MJPEG	25 fps	3.32 Mb/s
640x480	Standard	MJPEG	25 fps	4.14 Mb/s
640x480	Mid-Low	MJPEG	25 fps	6.10 Mb/s
640x480	Low	MJPEG	25 fps	6.73 Mb/s
320x240	High	MJPEG	10 fps	0.32 Mb/s
320x240	Mid-High	MJPEG	10 fps	0.41 Mb/s
320x240	Standard	MJPEG	10 fps	0.47 Mb/s
320x240	Mid-Low	MJPEG	10 fps	0.60 Mb/s
320x240	Low	MJPEG	10 fps	1.00 Mb/s
640x480	High	MJPEG	10 fps	0.83 Mb/s
640x480	Mid-High	MJPEG	10 fps	1.11 Mb/s
640x480	Standard	MJPEG	10 fps	1.42 Mb/s
640x480	Mid-Low	MJPEG	10 fps	2.31 Mb/s
640x480	Low	MJPEG	10 fps	3.87 Mb/s
1280x960	High	MJPEG	10 fps	2.47 Mb/s
1280x960	Mid-High	MJPEG	10 fps	2.71 Mb/s
1280x960	Standard	MJPEG	10 fps	2.85 Mb/s
1280x960	Mid-Low	MJPEG	10 fps	3.15 Mb/s
1280x960	Low	MJPEG	10 fps	3.88 Mb/s
320x240	High	MJPEG	5 fps	0.8 Mb/s
320x240	Mid-High	MJPEG	5 fps	0.23 Mb/s
320x240	Standard	MJPEG	5 fps	0.27 Mb/s

Resolution	Compression	Streaming Protocol	Frame Rate	Mb/s
320x240	Mid-Low	MJPEG	5 fps	0.3 Mb/s
320x240	Low	MJPEG	5 fps	0.55 Mb/s
640x480	High	MJPEG	5 fps	0.46 Mb/s
640x480	Mid-High	MJPEG	5 fps	0.62 Mb/s
640x480	Standard	MJPEG	5 fps	0.79 Mb/s
640x480	Mid-Low	MJPEG	5 fps	1.08 Mb/s
640x480	Low	MJPEG	5 fps	1.96 Mb/s
1280x960	High	MJPEG	5 fps	1.21 Mb/s
1280x960	Mid-High	MJPEG	5 fps	1.27 Mb/s
1280x960	Standard	MJPEG	5 fps	1.37 Mb/s
1280x960	Mid-Low	MJPEG	5 fps	1.57 Mb/s
1280x960	Low	MJPEG	5 fps	1.92 Mb/s

*NOTE: The bandwidth for MPEG4 streaming is selectable and is therefore not listed in table.*

## 9.2 Network settings

### 9.2.1 Basic

1. Select **Network > Basic**.
2. Configure the options as described in the table below.
3. Click **Save**.

Basic	
Camera Name	<input type="text" value="nwcam05"/>
Camera Name Enable	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Network	
DHCP	<input type="radio"/> ON (Automatically obtain IP address) <input checked="" type="radio"/> OFF (Manually use the following IP address)
IP Address	<input type="text" value="192.168.3.70"/>
Subnet Mask	<input type="text" value="255.255.248.0"/>
Default Gateway	<input type="text" value="192.168.0.254"/>
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>

<b>Basic</b>	
Camera Name	Enter your camera name or use the default name.
Camera Name Enable	ON or OFF
<b>Network</b>	
DHCP	The IP address is automatically obtained if you select ON; otherwise, select OFF if you want to setup the network setting manually.
IP Address	Enter your IP address here if you have selected DHCP off.
Subnet Mask	Please use the default number: 255.255.255.0
Default Gateway	Leave blank as default setting. It is not necessary to enter the default gateway if it is not used. Ask your network administrator for default gateway information.
Primary DNS	(same as above)
Secondary DNS	(same as above)

<b>Port</b>	
Stream 1	<input type="text" value="80"/> (Enter a value between 1 and 65535.)
Stream 2	<input type="text" value="81"/> (Enter a value between 1 and 65535.)
Cropping 1	<input type="text" value="82"/> (Enter a value between 1 and 65535.)
Cropping 2	<input type="text" value="83"/> (Enter a value between 1 and 65535.)
Cropping 3	<input type="text" value="84"/> (Enter a value between 1 and 65535.)
Cropping 4	<input type="text" value="85"/> (Enter a value between 1 and 65535.)
Cropping 5	<input type="text" value="86"/> (Enter a value between 1 and 65535.)

<b>UPnP Use</b>	
UPnP	<input type="radio"/> ON <input checked="" type="radio"/> OFF

<b>Audio Output Use</b>	
Audio Output	<input checked="" type="radio"/> ON <input type="radio"/> OFF

<b>Bandwidth Control Port</b>	
Bandwidth Control	<input checked="" type="radio"/> OFF <input type="radio"/> ON <input type="text" value="100"/> Mbit/s

<b>Port</b>	
Stream 1-2, Cropping 1-5	We recommend using the default port; if you need to change the default port, please contact your system administrator.

<b>UpnP Use</b>	
UpnP	When set to ON, the camera can be detected automatically by the PC. It is not necessary to install the IpFinder program.
<b>Audio Output Use</b>	
Audio Output	When set to ON, a voice message of the camera's IP address can be delivered to an external speaker via the audio output port.
<b>Bandwidth Control Port</b>	
Bandwidth Port	<p>OFF: The network camera will stream images at the maximum frame rate allowed by the network.</p> <p>ON: The network camera will display images up to the set bandwidth; using a lower bandwidth results in lower frame rates.</p>

## 9.2.2 DDNS

This function is available when registering with the DDNS provider. To transmit the camera's host name to a DHCP server you have to configure this in the following settings.

1. Select **Network Settings > DDNS**.
2. Configure the options as described in the table below.
3. Click **Save**.

### Network - DDNS Settings

DDNS Settings	
<b>DDNS</b>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
<b>DDNS Server</b>	<input type="text" value="DynDNS"/>
<b>Host Name</b>	<input type="text"/>
<b>Domain Name</b>	<input type="text"/>
Enter user name and password according to your DDNS provider.	
<b>User ID</b>	<input type="text"/>
<b>Password</b>	<input type="text"/>
<b>Password (Confirm)</b>	<input type="text"/>

DDNS	Select ON to enable the DDNS function.
DDNS Server	Select your DDNS server (DnyDNS or DHS).
Host Name	Enter the host name.
Domain Name	Enter the domain name.

User ID	Enter the login user name according to your DDNS provider.
Password	Enter the login password according to your DDNS provider.
Password (Confirm)	Confirm the login password.

## 9.2.3 FTP Server

1. Select **Network Settings > FTP Server**.
2. Configure the options as described in the table below.
3. Click **Save**.

FTP Server Settings	
FTP Function	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Login ID	admin
Password	•••••
Password (Confirm)	•••••
Max. Simultaneous Connections	10 ▼

FTP Function	Select ON to activate the FTP function.
Login ID	Enter the login ID.
Password	Enter the login password.
Password (Confirm)	Confirm the login password.
Max. Simultaneous Connections	Select the max. number of simultaneous connections.

## 9.3 Image parameters

### 9.3.1 Basic

1. Select **Image Parameters > Basic**.
2. Configure the options as described in the tables below.
3. Click **Save**.

Image Colour	
Preset Image	OFF
EV Adjustment	+  0 (Select '+' or '-' and input a value)
Automatic Gain Control (AGC)	Mid
Shutter Speed	1/25  s
Slow Speed Shutter	OFF
Back Light Compensation (BLC)	OFF
Sharpness	Soft
Gamma Correction	<input type="radio"/> 1 <input checked="" type="radio"/> 0.45
White Balance Control	AWB  48 (0-63)
Iris Adjustment	1

Preset image	<p>4 types of specific application setups can be selected for quick and easy presetting of parameters.</p> <p>Select "OFF" if you want to make individual settings.</p>
Automatic Exposure	<p>3 types of specific application conditions can be selected.</p> <p>In "Full Automatic" mode, the shutter speed is set to 1/60 s and the PTZ camera will automatically adjust the aperture according to the amount of outside light.</p> <p>In "Shutter Priority" mode, the shutter speed is adjustable in 22 steps between 1/1 s and 1/10,000 s.</p> <p>In "Manual" mode, the aperture can be set up manually.</p>
EV Adjustment	<p>Set the offset level to adjust the internal reference brightness level. The higher the level, the brighter the images and the lower the level, the darker the images.</p>
Automatic Gain Control (AGC)	<p>The circuit gain can be selected between "Low", "Mid" and "High", where the sensitivity characteristic increases in the same order. Noise at dark will be more noticeable when Auto Gain Control is near "High".</p> <p>When "OFF" is selected, the AGC is not available.</p> <p><b>NOTE:</b> If sensitivity is still too low after setting Auto Gain control, set the high limit value of the slow speed shutter to further increase sensitivity and thus to enhance image brightness.</p>
Shutter Speed	<p>Select the desired shutter speed. The network camera will adjust the aperture according to the amount of ambient light.</p>
Slow Speed Shutter	<p>The Slow speed shutter can be turned on if the sensitivity is still not sufficient under automatic gain condition at dark. The optimum image level can be maintained by appropriate gain and shutter combination</p>

	<p>which are determined automatically inside camera system.</p> <p>If slow speed shutter is activated, the exposure time becomes longer and the frame rate becomes smaller. Blurred images may result with moving objects.</p>
Back Light Compensation	<p>Set an area for backlight compensation. If backlight compensation is activated, the camera performs the exposure control only within the specified area.</p> <p>Backlight compensation is a function that adjusts the brightness of a selected area to an optimum level. This function is necessary when an auto iris lens tends to close due to an intense light coming from the back of the object in the area to be viewed so that areas become dark and visibility deteriorates.</p>
Sharpness	<p>Set a sharpness effect:</p> <p>Sharp: Sharpness is strong.</p> <p>Soft: Sharpness is weak.</p>
Gamma Correction	<p>1: Is selected for specific applications, such as FA application for obtaining true linear video data.</p> <p>0.45: This is the default setting, suitable for CCTV applications.</p>
White Balance Control	<p>Set the white balance value according to the environmental conditions for best colour rendition.</p> <p>AWB: The colour temperature of the camera is automatically adjusted according to the ambient lighting condition.</p> <p>Manual: Adjustable by user manually, this is useful for specific environmental conditions which AWB may not perform correctly.</p> <p>Indoor: Default for 3200K condition</p> <p>Outdoor: Default for 5100K condition</p> <p>ATW : The TTL white balance algorithm is set for ideal colour reproduction. The colour temperature range is 2500 °K – 10000 °K.</p>
Iris Adjustment	<p>Set the offset level to adjust the image level for a DC auto iris lens. The higher the level, the brighter the images and the lower the level, the darker the images.</p>

Picture	
Picture Flip	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Picture Mirror	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Picture Flip	Select ON to display the image upside down or OFF to deactivate the flip function.
Picture Mirror	Select ON to mirror the image or OFF the deactivate the mirror function.



## 9.3.2 Auto Patrol

1. Select **Image Parameters > Auto Patrol**.
2. Configure the options as described in the tables below.
3. Click **Save**.

Automatic Scanning Setting	
Tilt-Angle	<input type="text" value="0"/> (-90~30)           Speed : <input type="text" value="5"/> (1~90)

Automatic Patrol Setting	
Patrol :	<input type="text" value="Patrol1"/> Stop Time : <input type="text" value="5"/> sec
<input type="checkbox"/> 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> 09 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12	
<input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/> 27 <input type="checkbox"/> 28	
<input type="checkbox"/> 33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 <input type="checkbox"/> 36 <input type="checkbox"/> 37 <input type="checkbox"/> 38 <input type="checkbox"/> 39 <input type="checkbox"/> 40 <input type="checkbox"/> 41 <input type="checkbox"/> 42 <input type="checkbox"/> 43 <input type="checkbox"/> 44	
<input type="checkbox"/> 49 <input type="checkbox"/> 50 <input type="checkbox"/> 51 <input type="checkbox"/> 52 <input type="checkbox"/> 53 <input type="checkbox"/> 54 <input type="checkbox"/> 55 <input type="checkbox"/> 56 <input type="checkbox"/> 57 <input type="checkbox"/> 58 <input type="checkbox"/> 59 <input type="checkbox"/> 60	

Tilt Angle	The PTZ camera tilt angle can be configured for different application requirements. Set up tilt angle from -90° to 30°.
(Scan) Speed	The auto scan speed can be configured between 1 and 90°/s. Higher values will result in a higher tilt speed.
Patrol setup	There are 4 auto patrol settings for end user selection. The auto patrol function will continuously scan up to 64 preset positions and is not limited by the scan range.
Stop Time	Select the time for which the camera will stop at each position during scanning between 5 and 60 s
Preset selection	Select the presets between 1 and 64 that will be called during the patrol.

## 9.3.3 Mask Zone



The masking function can be activated only with the correct streaming settings. See page [→ 23].

1. Click **Image Parameters > Mask Zone**.
2. Select **ON**, then click **Set Mask Zone** to start mask setting.



3. Use the mouse to drag a mask rectangle on the screen.
4. Click OK to finish the setting, and return to the Mask Zone menu.
5. Click **Save** to enable the mask settings.

### 9.3.4 Cropping



The cropping function can be activated only with the correct streaming settings.

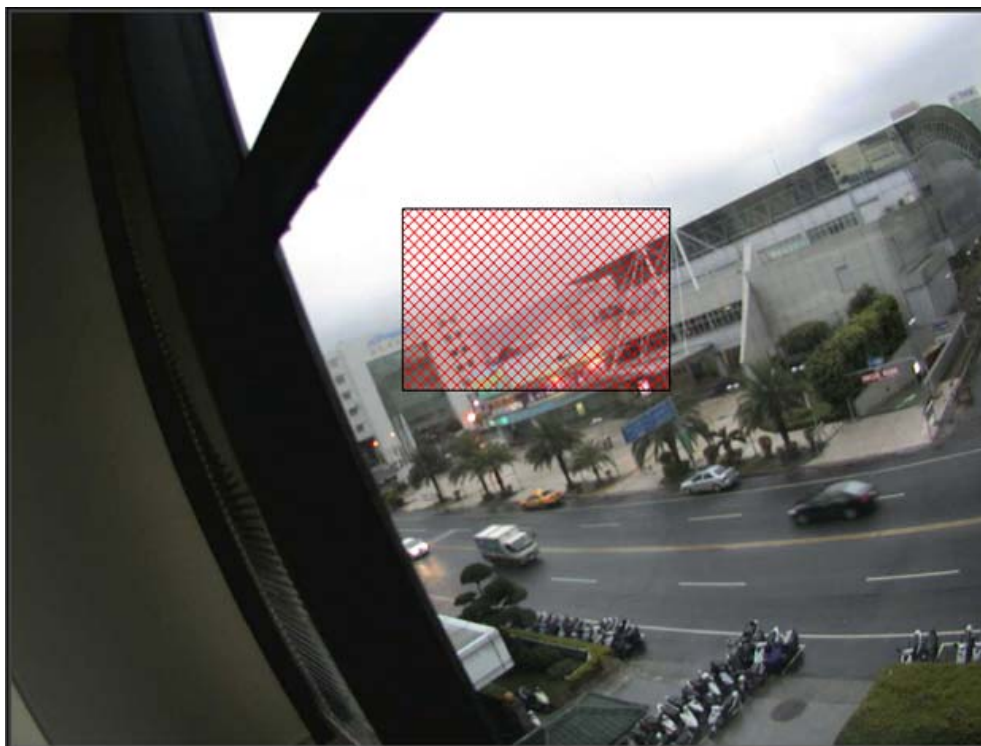
See page [→ 23] .

OSD text and MPEG4 is not supported when cropping function is on.

1. Select **Image Parameters >Cropping**.

Cropping			
Enable	No.	Name	Area
<input type="checkbox"/>	1	<input type="text"/>	Set Cropping Area
<input type="checkbox"/>	2	<input type="text"/>	Set Cropping Area
<input type="checkbox"/>	3	<input type="text"/>	Set Cropping Area
<input type="checkbox"/>	4	<input type="text"/>	Set Cropping Area
<input type="checkbox"/>	5	<input type="text"/>	Set Cropping Area

2. Mark the checkbox **Enable** and fill in the name, then click **Set Cropping Area** to start cropping setting.



3. Select one type of cropping area using the area buttons.  
⇒ A red-mesh rectangle will appear on the screen.
4. To select the cropping area, move the mouse to the desired position on the screen, then click the left mouse button, and the red mesh will be centred to that position.
5. Click **OK** to finish the setting, and return to the **Cropping** menu.
6. Click **Save**.

### 9.3.5 OSD



The cropping function can be activated only with the correct streaming settings. See page [→ 23] .

Using this function you can set up the text position and colour of the camera name, alarm text or date/time on the screen. To activate this function, the corresponding ENABLE flag for each item must be set to "ON":

- ▷ **Camera Name Enable** in the **Network settings** has been set to "ON". See page [→ 27] .
- ▷ **Text enable** in **Alarm settings** has been set to "ON". See page [→ 36] .
- ▷ **Display** in **Date and Time setting** has been set to "ON". See page [→ 51] .

1. Select **Image Parameters > OSD**.
2. Click **OSD** in the sub menu.  
⇒ The following screen will appear.

Camera Name / Alarm Text	
Horizontal Position	1 ▾
Vertical Position	1 ▾
Colour	White ▾

Date/Time	
Horizontal Position	1 ▾
Vertical Position	30 ▾
Colour	White ▾

- Set the horizontal and vertical position and the colour of the camera name, alarm text and date/time.
- Click **Save**.

## 9.4 Alarm

---

External alarm inputs and motion/activity detection can be set. When a sensor or other device is connected to the alarm input terminal, an alarm will be triggered by the external sensor. For example, by mounting a sensor to a door, an alarm will be triggered each time the door is opened. By setting the integrated motion/activity detection, an alarm will be notified when a change is detected by the camera.

### 9.4.1 Alarm

---

For usage of external alarm inputs you need to define the following parameters:

- Select **Alarm > Alarm**.
- Configure the options as described in the tables below.
- Click **Save**.

External Digital Input 1	
<b>Alarm Input</b>	<input checked="" type="radio"/> ON <input type="radio"/> OFF
The following settings are enabled when alarm is set to other than 'OFF':	
<b>Input Type</b>	<input checked="" type="radio"/> Normally Open (NO) <input type="radio"/> Normally Closed (NC)
<b>Text Enable</b>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
<b>Text</b>	<input type="text"/>
<b>Audio Output</b>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
<b>Event</b>	Audio Event 2 ▼

Alarm Input	ON: Detects an external alarm. OFF: Does not perform alarm detection.
Digital Input Mode	Alarm Input: Detects an external alarm. OFF: Does not perform alarm detection. B/W Mode: Sets the camera into monochrome mode if a trigger signal is received. (This function is available for CCDS1315-LP only)
Input Type	NO (Normally Opened): An alarm will be triggered when the external contact closes. NC (Normally Closed): An alarm will be triggered when the external contact opens.
Text Enable	Define whether an alarm text will be overlaid on the video image.
Text	Define a text for the alarm message. Max. 24 characters can be entered.
Audio Output	When set to ON, an audio alarm message can be sent to an external speaker. <b>NOTE:</b> A speaker with integrated amplifier must be connected to the AUDIO out jack on the rear panel.
Event	Select the pre-recorded sound file (on the SD card) to be output as a sound alarm. See page [→ 39] .

Motion Detection Settings	
<b>Motion Detection</b>	<input checked="" type="radio"/> ON <input type="radio"/> OFF
<b>Area</b>	<div>Set Motion Area</div>
<b>Sensitivity</b>	<div>Mid</div>
<b>Text Enable</b>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
<b>Text</b>	<div></div>
<b>Audio Output</b>	<input checked="" type="radio"/> ON <input type="radio"/> OFF
<b>Event</b>	<div>Audio Event 2</div>

Alarm Output	
<b>Alarm Mode</b>	<input checked="" type="radio"/> OFF <input type="radio"/> Event
<b>Output Hold Time</b>	<div>5</div> seconds

Motion Detection	<p>ON: Activates motion/activity detection function.</p> <p>OFF: Deactivates motion/activity detection function.</p>
Area	<ol style="list-style-type: none"> <li>Click <b>Set Motion Area</b>.</li> </ol> <p>➔ The motion setup screen will open.</p> <ol style="list-style-type: none"> <li>Select the detection area by clicking/dragging the mouse.</li> </ol>
Sensitivity	<p>High: An alarm will be triggered even when minor changes in brightness occur within the defined area.</p> <p>Mid: Intermediate between High and Low.</p> <p>Low: An alarm will be triggered only when major changes in brightness occur within the defined area.</p>
Text Enable	Select ON or OFF to define whether an additional alarm text defined in the text field is to be overlaid on the video image. See page.
Text	Define an individual text for alarm overlay.
Audio Output	Select ON or OFF to define whether an additional audio message (*.wav), pre-recorded on the SD card, is to be output via the Audio out connector.
Event	Pre-recorded voice files with extension .wav that have been uploaded to the SD memory card in advance can be selected as voice alarm messages. Max. 4 different audio sources can be selected.
Alarm mode	<p>OFF: Alarm out disabled</p> <p>Event: When alarm input 1 or alarm input 2 is triggered or motion is</p>

	detected, the alarm out will be triggered immediately as well.
Output hold time	Set the alarm output hold time. This function is used when connecting to alarm output terminals and activating a siren, buzzer or emergency light.

## 9.4.2 Audio Upload

You can choose which audio file (\*.wav) you want to upload as a voice alarm message to the SD card from your PC. There are 4 audio events available for uploading. You can select in the appropriate menu which audio event is to be played with which event (Motion or Alarm input 1).

1. Select **Alarm > Audio Upload**.
2. Click **Browse** to select the desired audio file on you hard disk.
3. Click **Upload**.

The screenshot shows a window titled 'Audio Event 1 :'. Inside, there is a 'File Name' label followed by a text input field. To the right of the input field is a 'Browse...' button. Below the input field and button is an 'Upload' button.

## 9.4.3 Alarm Server

1. Select **Alarm > Alarm Server**.
2. Configure the options as described in the table below.
3. Click **Save**.

### Alarm Server

The screenshot shows a window titled 'Alarm Server'. It contains several configuration options:
 

- Conditions:** Two checkboxes, 'Alarm' and 'Motion'.
- Alarm Server IP Address:** A text input field.
- Alarm Server Port Number:** A text input field with a range '(1~65535)' indicated to its right.
- Alarm - Input Message:** A text input field.
- Motion - Alarm Message:** A text input field.

Conditions	Choose alarm or motion event.
Alarm server IP address	Define the target alarm server IP address.
Alarm server port number	Define the target alarm server port number.

Alarm-input message	Define the message (up to 64 characters) to be sent to the alarm server when an alarm input is triggered.
Motion-Alarm message	Define the message (up to 64 characters) to be sent to the alarm server when a motion alarm is triggered.

## 9.5 Record

### 9.5.1 FTP Recording

1. Select **Record > FTP Recording**.
2. Set up your FTP recording conditions first. See page [→ 42] .
3. Then identify your FTP sever 1 and 2.
4. Click **Save**.

Conditions	
Conditions	<input type="checkbox"/> Schedule <input type="checkbox"/> Alarm <input checked="" type="checkbox"/> Motion

FTP Server 1 Settings	
FTP Server Name	<input type="text"/>
Login ID	<input type="text"/>
Password	<input type="password"/>
Password (Confirm)	<input type="password"/>
FTP Port Number	<input type="text" value="21"/>
FTP Mode	<input checked="" type="radio"/> PORT <input type="radio"/> PASV
FTP Connecting Method	<input checked="" type="radio"/> Reconnect <input type="radio"/> Continuous Connection

FTP server name	Enter a server name or address.
Login ID	Limited to users who have authority to access the server.
Password	Enter the registered password associated with the Login ID.
Password (Confirm)	Re-enter the password
FTP Port Number	Set "21" as default
FTP Mode	PORT: This mode is for most FTP applications.  PASV: This mode is used when the camera's network environment is behind a firewall.



FTP Connecting Method	Reconnect: The network camera logs in/out for each file transfer Continuous Connection: The network camera is always in connection.
-----------------------	--

## Connecting method

### Connecting Method

<b>Primary Server</b>	<input checked="" type="radio"/> FTP Server 1 (Default) <input type="radio"/> FTP Server 2
<b>Automatic Server Switch</b>	<input type="radio"/> ON (Automatically switch to another server in case of <input checked="" type="radio"/> OFF (Default)

Primary server	Define FTP server 1 or 2 as the primary server for saving image files.
Automatic server switching	Select ON if the FTP server is to be automatically switched to the secondary server in case the primary server is not available.

## SD Card Back Up if FTP Fail.

<b>SD Backup</b>	
<b>Function ON/OFF</b>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
<b>Accumulation Cycle</b>	<input type="text" value="60"/> seconds
<b>Overwrite</b>	<input type="radio"/> ON <input checked="" type="radio"/> OFF

The network camera automatically stores images on the SD card when images cannot be stored on the server due to a network failure, or other trouble.

When the network failure or other trouble are resolved, the images are transferred to the FTP server again.

Function ON/OFF	Select ON to activate SD card FTP back up function.
Accumulation Cycle	Set a time interval in seconds for images to be stored.
Overwrite	Overwrite when SD card reaches the maximum capacity and start with oldest stored images.

## 9.5.1.1 Recording conditions

### Scheduled Recording

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 a.m. - Stop: 5 p.m.			
Schedule 2	Start: 0 a.m. - Stop: 0 a.m.			
Recording Cycle	1 seconds			
Record File Name	LV <input type="text"/> yyyyMMddHHMMSS***N.JPG			
Server Path	Server 1: <input type="text"/> Server 2: <input type="text"/>			

Monday to Sunday	Determine the recording condition (STOP, All Day, Schedule 1 or Schedule 2) for all days from Monday to Sunday.
Schedule 1, Schedule 2	Determine the recording time.
Recording cycle	Set a time interval for recording images.
Record File Name	In the transfer image section, the file name assigned by the FTP server is time stamp based. This means that the record file name will be formatted with the desired file name, time and date. You can enter the file name or leave it blank.
Server Path	Enter the data path where the data is to be stored on the server.

## Recording by Alarm or Motion

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10
Recording Cycle	1 s
Recording Time	5 s
Record File Name	Alarm In : EX <input type="text"/> yyyyymmddHHMMSS
Server Path	Server 1: <input type="text"/> Server 2: <input type="text"/>

Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10
Recording Cycle	1 s
Recording Time	5 s
Record File Name	Alarm In : MD <input type="text"/> yyyyymmddHHMMSS
Server Path	Server 1: <input type="text"/> Server 2: <input type="text"/>

Record Source	Select the recording format : JPEG or MPEG4.
Record Frame	Set the number of images to be recorded immediately after an alarm occurs.
Recording Cycle	Set a time interval for alarm recording.
Recording Time	If MPEG4 is selected, the recording time can be set.
Record File Name	In the transfer image section, the file name assigned by the FTP server is time stamp based. This means that the record file name will be formatted with the desired file name, time and date. You can enter the file name or leave it blank.
Server Path	Enter the data path where the data to be stored on the server.

### 9.5.2 SD Recording

1. Select **Record > SD Recording**.
2. Configure the options as described in the table below.
3. Press **Save**.

Conditions	
Conditions	<input type="checkbox"/> Schedule <input type="checkbox"/> Alarm <input type="checkbox"/> Motion <input type="checkbox"/> Network

Overwrite	
Overwrite	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Conditions	Select whether images are to be stored on the SD card by: Time schedule, Alarm input, Motion alarm or Network loss
Overwrite	ON: Records are overwritten beginning with old records when the capacity of the SD memory card is exhausted during recording. (NOTE: If important data is to be saved, set the Overwrite mode to OFF.)  OFF: Recording is stopped when the capacity of the SD memory card is exhausted during recording

### 9.5.2.1 Recording conditions

#### Scheduled Recording

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 a.m. - Stop: 5 p.m.			
Schedule 2	Start: 8 a.m. - Stop: 5 p.m.			
Recording Cycle	5 seconds			

Monday to Sunday	Determine the recording condition (STOP, All Day, Schedule 1 or Schedule 2) for all days from Monday to Sunday.
Schedule 1, Schedule 2	Determine the recording time.
Recording cycle	Set a time interval for recording images.

## Recording by Alarm or Motion

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10 ▾
Recording Cycle	1 ▾ s
Recording Time	5 ▾ s

Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10 ▾
Recording Cycle	1 ▾ s
Recording Time	5 ▾ s

Record Source	Select the recording format: JPEG or MPEG4.
Record Frame	Set the number of images to be recorded immediately after an alarm occurs.
Recording Cycle	Set a time interval for alarm recording.
Recording Time	If MPEG4 is selected, the recording time can be set.

## Recording by Network Loss

Recording by Network Loss	
Recording Cycle	1 ▾ s

Recording Cycle	Set a time interval for recording cycle.
-----------------	--

## 9.5.3 E-Mail Recording

You can receive images by setting your e-mail account.

1. Select **Record > E-mail Recording**.
2. Configure the options as described in the table below.
3. Click **Save**.

Conditions	
Conditions	<input type="checkbox"/> Schedule <input type="checkbox"/> Alarm <input type="checkbox"/> Motion

E-mail Server Settings	
Authentication	<input checked="" type="radio"/> No Authentication <input type="radio"/> SMTP <div style="float: right;"> <input checked="" type="radio"/> PLAIN  <input checked="" type="radio"/> LOGIN  <input checked="" type="radio"/> CRAM-MD5           </div>
E-mail Server (SMTP)	<input type="text"/>
The following 3 items are enabled when 'SMTP' is selected	
E-mail User ID	<input type="text"/>
Password	<input type="text"/>
Password (Confirm)	<input type="text"/>
Administrator E-mail Address	<input type="text"/> <input type="button" value="Save &amp; Test E-mail"/>

Conditions	Select whether you receive an e-mail by: Time schedule, Alarm input or Motion alarm.
Authentication	<p><b>No Authentication:</b> no restrict rule</p> <p><b>SMTP:</b> Authorize plain, login, and Cram-MD5 Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks.</p> <p><b>PLAIN:</b> PLAIN is the name of a registered SASL authentication mechanism, which is supplied as a parameter to the AUTH command. The PLAIN authentication mechanism is described in RFC 2595. PLAIN is the least secure of all the SASL authentication mechanisms, since the password is sent unencrypted across the network.</p> <p><b>LOGIN:</b> The LOGIN mechanism is supported by Microsoft's Outlook Express, as well as by some other clients.</p> <p><b>CRAM-MD5:</b> CRAM-MD5 is a challenge-response authentication mechanism. It is used for authentication of SMTP or IMAP servers as the password is not transmitted in clear text form. This provides a safe authentication of the server even without encryption of the connection.</p>
E-mail Server (SMTP)	Enter your outgoing mail server (SMTP)
E-mail Server (POP)	Enter your incoming mail server (POP)
E-mail User ID	Enter your e-mail account ID number
Password	Enter your e-mail account password
Password (Confirm)	Confirm your e-mail password
Administrator	Enter the administrator's e-mail address

E-mail Address	
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## Mail to Address List

You can send e-mails to multiple users when a scheduled, alarm in, or motion detection event occurs.

Mail to				
Send to Administrator		<input checked="" type="radio"/> ON <input type="radio"/> OFF		
No.	E-mail Address	Send Condition		
		Schedule	Alarm	Motion
1		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 9.5.3.1 Recording conditions

#### Scheduled Recording

Scheduled Recording				
Subject				
Message				
Attach Image	<input type="radio"/> ON <input checked="" type="radio"/> OFF			
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Subject	Enter the e-mail subject title.
Message	Enter the message body as a notification.
Attach Image	Select if an alarm image is to be attached to the e-mail.
Monday to Sunday	Determine the recording condition (STOP, All Day, Schedule 1 or Schedule 2) for all days from Monday to Sunday.
Schedule 1, Schedule 2	Determine the record time.
Recording Cycle	Set a time interval for schedule recording.

## Recording by Alarm or Motion

Recording by Alarm	
Subject	<input type="text"/>
Message	<input type="text"/>
Attach Image	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Recording by Motion	
Subject	<input type="text"/>
Message	<input type="text"/>
Attach Image	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Subject	Enter the e-mail subject title.
Message	Enter the message body as a notification.
Attach Image	Select if an alarm image is to be attached to the e-mail.

### 9.5.4 NAS Recording

This is a method to store data on a network-based storage device.

Recording on NAS drives is intended for short video sequences and images.

1. Select **Record > NAS Recording**.
2. Configure the options as described in the table below.
3. Click **Save**.

NAS Settings	
NAS Record Conditions	<input type="checkbox"/> Schedule <input type="checkbox"/> Alarm <input type="checkbox"/> Motion
NAS Mode	<input checked="" type="radio"/> NFS <input type="radio"/> CIFS
Server	<input type="text"/>
User ID	<input type="text"/>
Password	<input type="text"/>
Password (Confirm)	<input type="text"/>
Path	<input type="text"/>



NAS Record Conditions	<p>Select the mode that will trigger the NAS recording session.</p> <p>After the NAS recording condition has been selected, the corresponding detailed recording field appears.</p> <p><b>NOTE:</b> If “Schedule” mode is selected, the data can be stored on the NAS storage in JPEG format only, however both JPEG and MPEG format are available for Alarm and Motion conditions.</p>
NAS Mode	<p>NFS is for network storage devices operating in UNIX systems</p> <p>CIFS is for Windows systems.</p>
Server	Enter the storage device’s address.
User ID	Enter the user ID.
Password	Enter the user password.
Password (confirm)	Re-enter the user password.
Path	Fill in the data path where the data is to be stored on the server.

### 9.5.4.1 Recording conditions

#### Scheduled Recording

Scheduled Recording				
Day	Recording Schedule			
	Stop	All Day	Schedule 1	Schedule 2
Monday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tuesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Wednesday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Thursday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Friday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Saturday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sunday	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Schedule 1	Start: 8 a.m. - Stop: 5 p.m.			
Schedule 2	Start: 8 a.m. - Stop: 5 p.m.			
Recording Cycle	5 seconds			

Monday to Sunday	Determine the recording condition (STOP, All Day, Schedule 1 or Schedule 2) for all days from Monday to Sunday.
Schedule 1, Schedule 2	Determine the recording time.
Recording cycle	Set a time interval for recording images.

## Recording by Alarm or Motion

Recording by Alarm	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10
Recording Cycle	1 s
Recording Time	5 s

Recording by Motion	
Record Source	<input checked="" type="radio"/> JPEG <input type="radio"/> MPEG4
Recording Frame	10
Recording Cycle	1 s
Recording Time	5 s

Record Source	Select the recording format: JPEG or MPEG4.
Record Frame	Set the number of images to be recorded immediately after an alarm occurs.
Recording Cycle	Set a time interval for alarm recording.
Recording Time	If MPEG4 is selected, the recording time can be set.

## 9.6 Audio

1. Select **Audio**.
2. Configure the options as described in the table below.
3. Click **Save**.

Audio Input	
Audio Input	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Audio Input Level	High
Connect a 3.5 mm plug-in microphone to the MIC IN jack of the camera.	

Audio Output	
Audio Output	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Audio Output Level	Mid
Connect the 3.5 mm plug of the amplified speaker to the AUDIO OUT jack of the camera.	

Audio Input	ON: The external microphone input or integrated microphone is activated. OFF: The external microphone input or integrated microphone is
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	deactivated.
Audio Input Level	HIGH: Increased audio input level. LOW: Reduced audio input level.
Audio output	ON: The audio output is activated. OFF: The audio output is deactivated. <b>NOTE:</b> If audio output is ON, use an external audio amplifier or loudspeaker with integrated amplifier.
Audio Output Level	HIGH: Increased audio output level. MIDDLE: Adjusts the audio output level to a medium level. LOW: Reduced audio output level.

## 9.7 Date/Time

1. Select **Date/Time**.
2. Configure the options as described in the table below.
3. Click **Save**.

Set Display and Synchronization Mode	
Display	<input type="radio"/> ON <input checked="" type="radio"/> OFF
Synchronization Mode	<input type="radio"/> Manual <input checked="" type="radio"/> NTP <input type="radio"/> Synchronization from PC

Set Date and Time Manually	
Date and Time	Date: <input type="text" value="Feb"/> <input type="text" value="23"/> 20 <input type="text" value="0"/> <input type="text" value="9"/> Time: <input type="text" value="7"/> : <input type="text" value="9"/> : <input type="text" value="11"/> <input type="text" value="p.m."/>

Set Date and Time By NTP Server	
Time Zone	<input type="text" value="GMT +2 Athens, Istanbul, Minsk"/>
NTP Server	<input type="text"/>
Time Adjustment Period	<input type="text" value="On camera boot and at 6-hour intervals"/>
NTP Time Adjustment Test	<input type="button" value="Save &amp; Test"/>

Daylight	
Daylight saving	<input checked="" type="radio"/> ON <input type="radio"/> OFF

Display	Select ON to display date/time on screen.  <b>NOTE:</b> The position and colour can be set on the camera OSD menu. See also page [→ 35] .
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Synchronization mode	<p>Manual: Enter the date and time to set up system time.</p> <p>NTP: You can also enable Network Time Protocol (NTP) by NTP server. Enter a host name for the NTP server, select a time adjustment period, and click the "Save and Test " button to start testing the NTP function.</p> <p>Synchronization from PC: System date/time will be synchronized by the PC date/time.</p>
Date and Time	<p>If "Manual" is selected, the date and time can be entered manually.</p> <p>If "NTP" is selected, the date and time will be synchronized by the NTP server.</p> <p>If "Synchronization from PC" is selected, the date and time will be synchronized by the PC.</p>
Daylight Saving	Select ON to active the daylight-saving function if you are in a daylight-saving time zone (effective for NTP mode only).

## 9.8 Access protection

### 9.8.1 Administrator

1. Select **Access protection > Administrator**.
2. Configure the options as described in the table below.
3. Click **Save**.

Administrator	
User ID	<input type="text" value="admin"/>
Password	<input type="password" value="•••••"/>
Password (Confirm)	<input type="password" value="•••••"/>
Language	<input type="text" value="English"/> ▼
Logoff Time	<input type="text" value="OFF"/> ▼

User ID	<p>The default setting for the administrator user ID is "admin".</p> <p>Enter your individual user name if you want to change the default setting.</p>
Password	<p>The default setting for the administrator password is "admin".</p> <p>Enter your individual password if you want to change the default setting.</p>
Password (confirm)	If you change the administrator password, confirm the new individual password by retyping it.
Language	Select your individual language of the user interface.
Logoff Time	Enter the time (sec) after which the administrator will automatically be logged off. OFF means no automatic log off.

## 9.8.2 User list

Besides the administrator, general users can be authorized by the system administrator to access the camera.

1. Select **Access protection > User List**.
2. Configure the options as described in the table below.
3. Click **Save**.

User Settings			
ID	<input type="text"/>		
Password	<input type="password"/>	Password (Confirm)	<input type="password"/>
Level	<input checked="" type="radio"/> Advanced User <input type="radio"/> User		Language <input type="text" value="English"/>

User List	
ID	Level
Language	
ID	Enter a login name for the new user.
Password	Enter a password for the new user.
Password (confirm)	Re-enter the password.
Level	Select a user type:  The "Advanced User" is allowed to view the live picture, to perform PTZ control, and to define/store presets in the camera.  A "User" is allowed to view the live picture only.
Language	Set the user language.
Reset	Click <b>Reset</b> to delete your entries.
Add	Click this button to add the new user to the user list.
Remove	If you want to remove a user from the user list, click first <b>Select</b> and then <b>Remove</b> .

## 9.9 Firewall

### 9.9.1 IP Address Filter

All the IP addresses listed and enabled in this section will be allowed or denied to pass the firewall.

1. Select **Firewall > IP Address Filter**.
2. Configure the options as described in the table below.
3. Click **Save**.

Allowed/Denied		
Function	<input checked="" type="radio"/> OFF <input type="radio"/> Allowed <input type="radio"/> Denied	

IP Address List		
No.	IP Address	Enable
1	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
2	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
3	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
4	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF
5	<input type="text"/>	<input type="radio"/> ON <input checked="" type="radio"/> OFF

Function	<p>OFF: The IP address filter function is deactivated.</p> <p>Allowed: All the IP addresses enabled in the list are allowed to access the camera.</p> <p>Denied: All the IP addresses enabled in the list shall be rejected by the firewall.</p>
IP Address	Enter the IP addresses which are to be processed by the firewall system into the IP address field. Up to 10 addresses can be set.
Enable	Enable the IP address which is going to be processed by the firewall filter.

## 9.9.2 Forbidden Ports

All the ports listed and enabled in this section will be forbidden to pass the firewall.

1. Select **Firewall > Forbidden Ports**.
2. Enter the port number and click **Enable** to have this port rejected by the firewall.
3. Click **Save**.

Forbidden Ports		
No.	Port	Enable
1	<input type="text"/> (1-65535)	<input type="radio"/> ON <input checked="" type="radio"/> OFF
2	<input type="text"/> (1-65535)	<input type="radio"/> ON <input checked="" type="radio"/> OFF

### 9.9.3 Forbidden Protocol

1. Select **Firewall > Forbidden Protocol**.
2. Click **ON** to have the ICMP or UDP protocol rejected by the firewall.
3. Click **Save**.

Forbidden Protocol		
Forbid ICMP	<input type="radio"/> ON	<input checked="" type="radio"/> OFF
Forbid UDP	<input type="radio"/> ON	<input checked="" type="radio"/> OFF

## 9.10 System

### 9.10.1 Setting

CGI-Lock is a system security setting. It means that you can activate or deactivate the login data for the CGI commands.


When set to ON, you have to enter a user ID and password with every CGI command. When set to OFF, CGI commands are accepted without login details.

1. Select **System > Settings**.
2. Select ON or OFF.
3. Click **Save**.

System Setting		
CGI-Lock	<input type="radio"/> ON	<input checked="" type="radio"/> OFF

### 9.10.2 Firmware Update

You can update the system firmware once the update file is available. It is the customer's responsibility to update the firmware. During the firmware update, the camera cannot be operated and does not deliver video information.

	<b>NOTICE</b>
	<p>Important</p> <p>The power supply to the camera must not be interrupted during the firmware update. Otherwise the camera will be damaged and have to be returned to the workshop for repair.</p>

- ▷ Close all programs on the PC before starting a firmware update.
  - ▷ Never disconnect power and LAN cables during the firmware update process.
1. Select **System > Update**.
  2. Select the firmware file using the **Browse** button.

3. Click **Upload**.

⇒ Rebooting the camera after a firmware update may take approx. 15 minutes.

**Firmware Update**

Firmware:

Browse...

Current Version : X.1.1.16

Upload

## 9.10.3 Configuration

Camera configuration information can be exported and saved to a personal computer. It can also be imported from the personal computer to network cameras.

1. Select **System > Configuration**.

2. Perform the actions as described in the table below.

**Import Configuration Settings**

Uploads (transfers/updates) configuration settings saved in client computer to network cameras.

Configuration File:

Browse...

Import

Configuration information import takes several minutes.

**Export Configuration Settings**

Downloads (saves) configuration settings of network cameras to client computer.

Export

**Set to Factory Default**

Default

Camera is rebooted to make changes effective.

**Network Camera Reboot**

Reboot

Import Configuration Settings	Click <b>Import</b> and select the configuration file to start importing the settings to your network camera.
Export Configuration Settings	Click <b>Export</b> and choose a file directory to save the configuration settings on your computer.
Set to Factory Default	<p>Clicking the <b>Default</b> button will reset the camera settings to the factory default values.</p> <p><b>NOTE:</b> Basic settings of the IP camera such as the network IP address and the camera name will not be reset.</p>



Network Camera Reboot	Click <b>Reboot..</b> The confirmation message will be displayed. Click <b>OK</b> to reboot the network camera.
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## 9.10.4 Back Focus

1. Select **System > Back Focus**.
2. Click the **Adjust** button.
  - ⇒ The lens iris will be fully opened, a live picture screen will pop up, and brightness will automatically be set to optimum for setting up the back focus.
3. Adjust the lens back focus.
4. Click the **Close** button to exit the live picture screen.

Back Focus	
	<input type="button" value="Adjust"/>

## 9.10.5 Remote

1. Select **System > Remote**.
2. Set the baud rate and address of the telemetry device which you want to control via the RS485 port.
3. Click **Save**.

Remote	
Baud Rate	9600 <input type="button" value="v"/>
Device Address	1 (0-255)

## 9.10.6 Temperature

1. Select **System > Temperature**.
2. Configure the options as described in the table below.
3. Click **Save**.

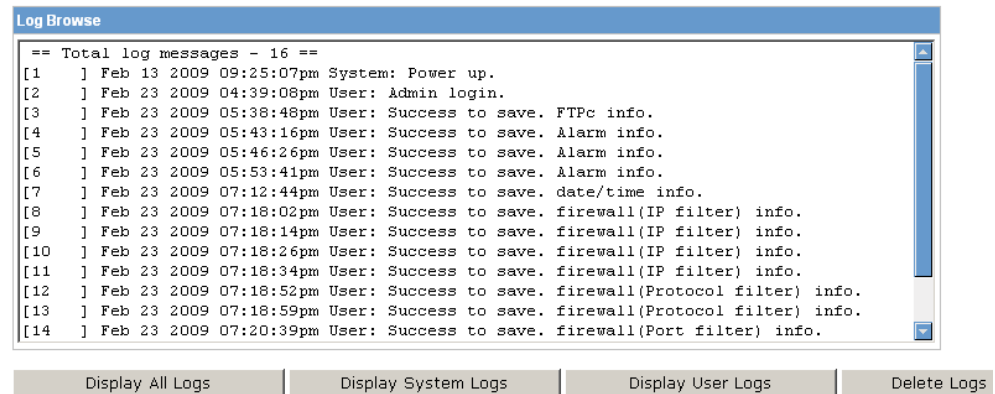
Temperature Settings and Display	
Display Type	<input checked="" type="radio"/> C <input type="radio"/> F
Temperature	61°C
Temp. notification Interval	1 <input type="button" value="v"/> min

Display Type	Select the desired temperature scale (C=Celsius, F=Fahrenheit)
Temperature	The internal temperature of the camera is displayed in the selected temperature scale.
Temp.	If a temperature notification interval has been set an e-mail will be

notification Interval	delivered continuously according to the interval set when the defined temperature is exceeded. If the notification interval is set to "0", the e-mail notification is deactivated.
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## 9.11 Logbook

1. Select **Log**.
2. Click the buttons to display the desired logbooks or to delete all logs.



## 9.12 Licence information

- Select **Notice**.
- ⇒ All licence information for the camera will shown.

## 10 Utility program application

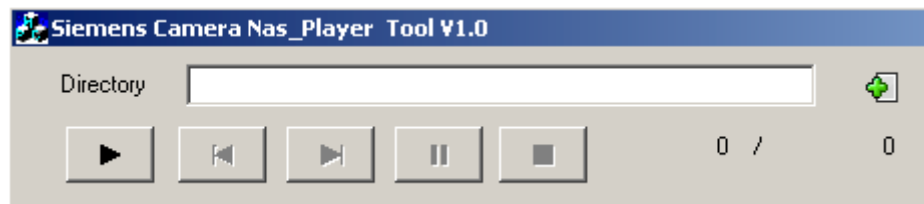
### 10.1 NAS player setup

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If recording to a NAS is selected for the camera, use this player for review.

This application is found on the CD included in the delivery.

1. Execute NAS record setup first.
2. Click on the cross cursor button and choose the path of the NAS file to be played.
3. Click on the **Play** button.
4. Click on the **Stop** button.



### 10.2 Audio record setup

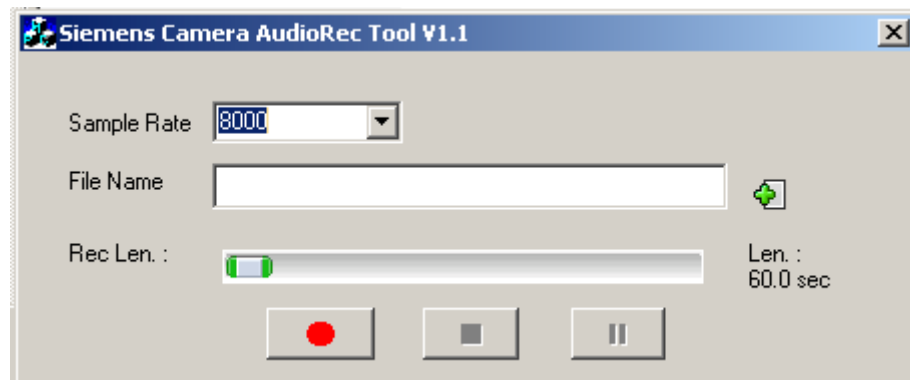
---

You can record a new voice file, then upload it to the network camera. It can make an alarm out event. After you finish audio record, please perform alarm audio setting.

This application is found on the CD included in the delivery.

Perform audio recording in the following sequence

1. Execute audio record setup first.
2. Click on the cross cursor button and choose the path where you want to save the audio (wav) file.
3. Install a speaker before you start recording your voice.
4. Click on **red** button and start recording your voice.
5. Click on **Stop** button.
6. Recording is now finished

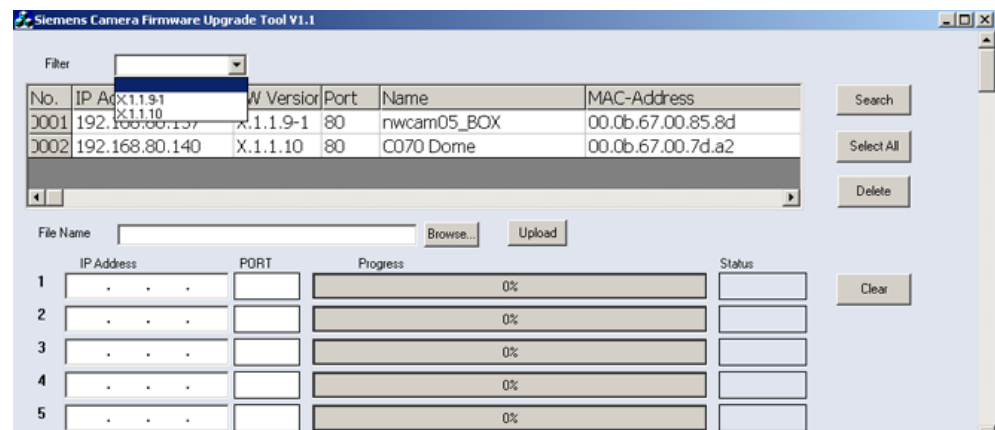


## 10.3 Firmware update setup

This application supports firmware update of up to 100 IP cameras in the same network. Individual firmware update can be performed via the IP camera webpage as well. See page [→ 55] .

This application is found on the CD included in the delivery.

1. Execute firmware update setup first.
2. Select filter SW version.
3. Click on the network camera you want to update. 100 pcs network camera are supported for firmware update.
4. Click on the **Browser** button and choose the network camera SW version.
5. Click on the **Upload** button for firmware update.
6. The update is now finished.



## 11 Maintenance

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The camera is maintenance-free. Small amounts of dirt or dust can be cleaned from the camera using a clean soft cloth.

- Do not touch the lens area. Use a soft cloth moistened with alcohol to clean the surface if it is touched accidentally.
- Defective modules should be sent to the nearest Siemens office to be forwarded to the service centre.

## 12 Disposal

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All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.



This crossed-out wheeled bin symbol on the product means the product is covered by the European Directive 2002/96/EC.

The correct disposal and separate collection of your old appliance will help prevent potential negative consequences for the environment and human health. It is a precondition for reuse and recycling of used electrical and electronic equipment. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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